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NCAR

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Robert J. Serafin

June 2, 1993

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FCC MAIL ROOM

Mr. Carl Hine
Federal Communications Commission
1919 M Street NW
Washington, DC 20554

Re: FCC Notice of Inquiry DC-2358 ET Docket 93-59

Dear Mr. Hine:

The National Center for Atmospheric Research (NCAR) currently operates four 915 MHz wind profilers. Each wind profiler is a crucial part of NCAR's Integrated Sounding System (ISS) which combines various state-of-the-art remote and *in situ* sensors into single transportable units. NCAR plans to eventually have 8-10 ISS.

The current ISS/wind profiling systems serve two primary functions. One system is dedicated to climate studies and the other three systems primarily serve the research needs of the university atmospheric and ocean science communities. These systems are deployed throughout the U.S. and abroad. The data from the ISS/wind profilers is used to study many research topics of national importance, including climate change, cloud-climate interactions, data assimilation (the incorporation of data into numerical prediction models), boundary layer meteorology and mesoscale processes (including severe weather prediction). The ability of the ISS to provide data for these studies would be well served by a dedicated communication system.